	Application No.	Applicant(s)
Notic of Allowability	10/615,549	YUNKER ET AL.
	Examiner	Art Unit
	Linh M. Nguyen	2816
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ars on th cover sheet we (OR REMAINS) CLOSED in or other appropriate communication is and MPEP 1308.	n this application. If not included unication will be mailed in due course. THIS subject to withdrawal from issue at the initiative
1. This communication is responsive to <u>Applicants' filing on C</u>)//08/2003 and preliminary	<u>amendment 1116d Un U1/28/2004</u> .
2. The allowed claim(s) is/are 1-25.		
3. \boxtimes The drawings filed on <u>08 July 2003</u> are accepted by the E	xaminer.	
 4. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Applicati	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to fil IENT of this application.	e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s)		
1. ☑ Notice of References Cited (PTO-892)	5. Notice of I	nformal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		/Mail Date <u>05/27/04</u> . Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance
of Biological Material	9. 🔲 Other	<u>-</u> ·

Page 2

Application/Control Number: 10/615,549

Art Unit: 2816

DETAILED ACTION

This is a reply to the Applicants' filing on 07/08/2003 and a preliminary amendment submitted on 01/28/2004. By virtue of the preliminary amendment, claims 1-25 are currently presented in the instant application.

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it must be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicants' representative, Peter C. Knops, on 05/26/2004.

The Examiner's Amendment includes:

A. CLAIMS:

Claim 10, line 15 (last line), change "unit" to --integrated circuit--;

Claim 19, line 3, insert –processing—in front of "chip";

Claim 23, line 3, insert –processing-- in front of "chip"; and

Claim 25, lines 3 and 4, delete "about".

B. ABSTRACT:

Lines 2 and 5, replace "means" with -device--.

Application/Control Number: 10/615,549 Page 3

Art Unit: 2816

Allowable Subject Matter

2. Claims 1-25 are allowed.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

The closest prior art fails to disclose or fairly suggest

- a) A signal pathway including a fourth signal line formed on a circuit board having a first end electrically connected to a third signal line at a second pad, and a second end forming a termination, in combination with the remaining claimed limitations, as called for in claim 1; or
- b) A signal pathway including a first integrated circuit signal line extending into a package from a signal-in pad disposed on a surface of a circuit board, the first integrated circuit signal line forming a stub extending at least to an interface of the die and the package, in combination with the remaining claimed limitations, as called for in claim 10; or
- c) A signal pathway including a third signal line formed in a circuit component, the third signal line extending from a signal-in pad electrically connected to a first terminal to a signal-out pad electrically connected to a second terminal; and a stub electrically connected to a second signal line on the circuit component, in combination with the remaining claimed limitations, as called for in claim 13; or
- d) An electronic system including a third signal line formed on a circuit component, the third signal line extending from a signal-in pad electrically coupled to a first terminal at a circuit board interface to a signal-out pad electrically coupled to a second terminal at the circuit board

Application/Control Number: 10/615,549

Art Unit: 2816

interface; and a stub electrically coupled with the third signal line on the circuit component, in combination with the remaining claimed limitations, as called for in claim 18; or

e) A method for routing a clock signal including a step of providing a signal pathway having a third signal line formed on the circuit component mounted to a circuit board, the third signal line extending from a signal-in pad electrically coupled with a first terminal to a signal-out pad electrically coupled with a second terminal; and a stub electrically coupled with the third signal line on the circuit component, in combination with the remaining claimed limitations, as called for in claim 22.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh M. Nguyen whose telephone number is (571) 272-1749.

The examiner can normally be reached on Alternate Mon, Tuesday - Friday from 7:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/615,549 Page 5

Art Unit: 2816

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Linh M. Nguyen Examiner Art Unit 2816

LMN

The hope